#### 2015

# Subject: Chemistry (Honours)

#### Paper: V

#### Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as for as practicable.

#### 1. Answer any four questions:

 $2 \times 4 = 8$ 

- (a) Depict the ambidentate and flexidentate behaviours of thiocyanate anion.
- (b) SiCl<sub>4</sub> has lower boiling point than CCl<sub>4</sub>.- Explain.
- (c) Cite and draw one example each of 3c-2e and 2c- 2e bonds.
- (d) Briefly comment on the compound K,C,
- (e) Write down the structural formulae of sodium pyrophosphate and sodium metaphosphate.
- (f) What is meant by chalcogenide? Give example.
- (g) 'NaOH is base but ClOH is acid'- Give reason.

#### 2. Answer any three questions:

 $6 \times 3 = 18$ 

a) (i) What are inner metallic complexes? Give example.

2

(ii) Chromium(III) chloride forms three different hydrates of the same mole ratio Cr:Cl:H<sub>2</sub>O=1:3:6. The violet form does not lose water over conc. H<sub>2</sub>SO<sub>4</sub> and gives 3 equivalent of AgCl on treatment with AgNO<sub>3</sub>. The other two forms are green and lose 1 and 2 moles of H<sub>2</sub>O over conc. H<sub>2</sub>SO<sub>4</sub> and give 2 and 1 equivalent of AgCl, respectively with AgNO<sub>3</sub>. Write down the structrures of the three isomeric coordination compounds and explain the isomerism involved.

(b) (i) Define and exemplify chelate complex.

3

- (ii) 'The stability of [Ni(en)<sub>1</sub>]<sup>2\*</sup> (en=ethylenediamine) is much greater than that of [Ni(NH<sub>2</sub>)<sub>0</sub>]<sup>2\*</sup>, although both contain six Ni-N bonds.' Explain.
- (c) (i) Apply radius ratio principle to explain the difference between crystal structures of NaCl and CsCl.
  - (ii) 'MgO is a stable ionic solid though large amount of energy is required to form Mg to Mg<sup>2+</sup> and to dissociate O<sub>2</sub> into atomic oxygen and thereafter to form O<sup>2-</sup> ion.'- Account for the fact.

# **Burdwan 2013 Chemistry General Question**

**Disha Experts** 

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